

AG.

	304	22	2
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669 / 12

19

JACKET NO.

GOVERNMENT OF PALESTINE

DEPARTMENT OF AGRICULTURE & FISHERIES.

PLANT PROTECTION SERVICE.

SUBJECT:

- Animal and Insect Pest -
Capnodis Research
Agricultural School
Tulkarem.

GPP. 4913-1000-39-1-30

CONNECTED FILESNUMBERSUBJECT

שם תיק: חקר קפנודיס בבית הספר החקלאי בטולכרם -
Capnodis Research, Agricultural School T

מ-669/18

מזהה פריט: 000nqsZ

כתובת 2-112-5-4-10

14/11/2016

תאריך הדפסה

FILE NO.

(13)

From Principal, K.A.S. Tulikarem d/—

(14)

To do

d/8.3.40.

Date 8/3 H

304/22/2

G.P. 2215-3000-7-12-86

(1)

From K. A. School Tulkarem d/28.11.37

(2)

From Do. d/30.3.38

(3)

To Do. d/24.5.38

(4)

To Do. d/14.6.38

14/6 K

(5)

From Do. d/6.7.38

P. A. 16/1 K

(6)

From Principal K. A. S. Tulkarem 19.9.39

(7)

From Do. do. 21.10.39

(8)

To Do. do. 7.11.39

(9)

From Principal K. A. S. 8.12.39

(10)

To. Do. 21.12.39

12/12

(11)

From Do. d/31.1.40.

(P.T.O.)

(12)

To Do. d/9.2.40.

12/2

304/22/2.

14
8th March, 1940.

Subject :- Capnodis.

Reference :- Your D.3/66 undated.

Principal,
Kadoorie Agricultural School,
Tulkarem.

I am sure, that had you the history sheet of the stone fruit plantation of the Agricultural School Tulkarem at your disposal here, you would not have come to the conclusion that the "destruction of most of the stone fruit trees, resulted from my investigations", which as is probably known to you I had even no chance to commence owing to the disturbances and closing down of the school.

2. For your convenience and easy reference I have extracted from my file these particulars and present them hereunder :-

- i. Date of planting of trees - 1930-31.
- ii. Number of peach, plum and Apricot trees planted. 279.
- iii. Number of trees which died till July, 1938. 111
- iv. Number of trees found infested as on July, 1938. 37
- v. Methods of control applied by the School till 1938.
 - (a) Hand collecting of adults.
 - (b) Digging out of larvae and pupae.
 - (c) Opening soil around the trees and exposing main roots to the sun.
 - (d) Painting with tar roots and trunks up to 20 cm. above the soil level.
 - (e) Uncovering roots and applying Paradichlo-benzine round the trees, covering with earth and spraying with water.

These particulars which have been supplied by your school speak for themselves and do not require

further elucidation.

It will be observed that regardless the methods of control applied nearly half of the number of trees succumbed to Capnodis attack till July 1938, the time I was about to start my experiments.

I have pointed out in one of my previous letters that Capnodis does not breed in dead trees and the number of beetles which emerged from trees which died after July 1938 could not have much influence upon the general condition of the plantation.

I have also mentioned that you may remove the dead trees.

3. With regard to the last para of your letter I would like to bring it to your notice that Prof. Bodenheimer has experimented with Paradichlo-benzine for several years ⁱⁿ and found it ^{un} effective and economic.


ACTING CHIEF PLANT PROTECTION
OFFICER.

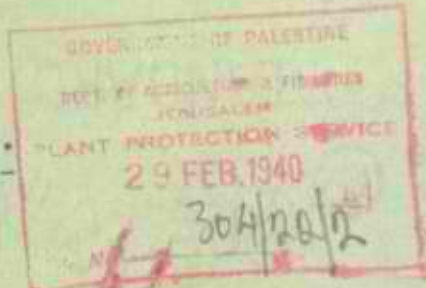
Copy to :- Director of Agriculture.

12.3/66

13

DEPARTMENT OF AGRICULTURE
AND FISHERIES
JERUSALEM.

A/CHIEF PLANT PROTECTION OFFICER.



Subject: Capnodis.

Reference: Your letter No. 304/22/2
dated 9th February, 1940.

I understand from your above-mentioned letter that Capnodis larvae complete their life cycle in the dead trees. I take it that the larvae develop to beetles which consequently lay their eggs in the living or dying trees.

2. It is concluded, however, that the discontinuation of removal of the dead and dying trees as was advised in your letter No. 304/22/2 dated 14th June, 1938, has helped the development of the adult beetle and hastened the wide-spread and consequent destruction of most of our stone fruit trees.

3. Certain text books advise the use of paradichlorobenzene, will you please give me your observations on this subject.

A. M. M. M.
Principal,
Kadooris Agricultural School,
Tulkarm.

Copy to: Director of Agriculture and Fisheries.
" " Mr. Khawam.

See (14)

12
PLANT PROTECTION SERVICE.

9th February, 1940.

304/22/2.

11
Subject :- Capnodis.

Reference :- Your D.3/30 dated 31.1.40.

Principal,
Kadoorie Agricultural School,
Tulkarem.

Capnodis larvae if present in dying trees complete their life cycle in the dead tree, but no new breeding is going on in such trees.


ACTING CHIEF PLANT PROTECTION
OFFICER.

see (13)
JK.

ALL COMMUNICATIONS TO BE ADDRESSED TO
DIRECTOR OF AGRICULTURE
AND FISHERIES.

IN REPLY PLEASE QUOTE

No. Ag. D.3/30

Telephone No. 1005, JERUSALEM

4421

GOVERNMENT OF PALESTINE
DEPT. OF AGRICULTURE & FISHERIES
JERUSALEM
PLANT PROTECTION SERVICE
1- FEB 1940
File No. 304/22/2

Government of Palestine

Department of Agriculture & Fisheries,

JERUSALEM, PALESTINE

P. O. B. 483

31st January, 1940.

193

A/Chief Plant Protection Officer.

Subject :- Capnodis.

Reference:- Your letter No.304/22/2 dated
21.12.1939.

My letter No.D.3/444 dated 8th December,1939,
referred to both dying and dead trees. I shall be
pleased to be informed whether the larvae die immed-
iately with the death of the tree.

see 12
A. S. Tulkarm
Principal, K.A.S. Tulkarm.

19

PLANT PROTECTION SERVICE
JERUSALEM

304/22/2.

21st December, 1939.

Principal,
Kadoorie Agricultural Schhol,
Tulkarm.

⑨

Subject :- Capnodis Research.

Reference:- Your D.3/444 of 8.12.39.

Dead trees can now be removed if so desired.
I would like however to bring it to your notice, that,
Capnodis is breeding in dying trees but not in dead
ones. There is therefore no danger of spreading this
pest from dead trees.

②

2. I regret I have no other methods of control to
indicate than those mentioned in para 2 of my letter
No. 305/4/7 dated 7th Movember, 1939.

3. Digging of larvae is carried out after the
rainy season is over- and at that time if conditions
permit it may be possible to take up our investigations
on Capnodis at the School.

see ⑪

⑪

ACTING CHIEF PLANT PROTECTION
OFFICER.

SG.

D.3./444



Department of Agriculture
and Fisheries,
Jerusalem.

8th December, 1939.

Acting Chief Plant Protection Officer.

Reference :- Your letter No.305/4/7 of 7.11.39
(para 2).

It is noted that "the only remedies known at present are the digging out of the larvae and the collection of the adult beetles", as was practiced by the School authorities prior to your letter No.304/22/2 of the 24th May, 1938, in which you have asked us to discontinue this practice.

2. The School was also in the habit of removing dying or dead trees attacked by Capnodis.

In your letter No.304/22/2 dated the 14th June, 1938, you have advised that these trees should not be removed.

3. Mr. Khawam, our Horticultural Lecturer and myself, are of the opinion that the removal of these trees will reduce the field of activities of Capnodis.

4. At present, hand labour is not available for digging the larvae and collecting the adults. Is there an alternative method for destroying these creatures as they move to attack another tree?

5. I shall therefore be glad to have your advice in respect of paras 2, 3 and 4 above.

Am. N. Karm
Principal, K.A.S. Tulkarm.

Copy to : Acting Director.
Mr. Khawam.

AK/EA.

2012

305/4/7.

Copy

7th November, 1939.

Subject:- Plant Diseases- Apples.

Reference:- Your D.3/382 of 21.10.39.

Principal,
Kadoorie Agricultural School,
Tulkarm.

With reference to your above quoted letter and further to my letter of even number dated 23rd October, 1939, Please find copy of a letter received from Dr. I Reichert for your information.

2. With regard to Capnodis the only remedies known at present are the digging out of larvae and the collection of adult beetles.

Sgd. P. Jolles.

ACTING CHIEF PLANTPROTECTION
OFFICER.

13304

1933

13 November 1933

JOHN F. W. N. O. Y.

Principal - First National Bank

Philadelphia - Pa. 19101

Principal,
Kendall Agricultural School,
Tulsa, Okla.

With reference to your letter dated October 25, 1933,
to my letter of November 1, 1933, and your letter of
November 1, 1933, received from the Tulsa office of
your institution.

I will send to your institution the only remaining
present and am enclosing an original and a copy of
which is being.

Very truly,
John F. W. N. O. Y.

John F. W. N. O. Y.
Tulsa, Okla.

Copy.

D/ B/302

A/C.P.P.O.

Subject :- Plant Diseases.

Further to my letter dated 19.9.39, the Fusicladium dendriticum attack on apples is becoming more intense especially on the Renette-de Canada variety.

2. Capnodis attacks are also widespreading in the orchard and ten new apricot trees were killed.

Sgd. ?

Principal.

Recd (8)

6

21.10.39.

7

Library & School
Tulsa, Okla.

1933

1933

1933

1933

Subject: - First Session.

Further to my letter dated 12.12.33, the President

of the American Society for the Study of the Negro in America

on the Kansas-Nebraska Territory.

2. The following facts are also interesting in the history and

and development of the territory.

1933

1933

1933

1933

Copy.

19th September, 1939.

D.3/336.

A/Chief Plant Protection Officer,
Jerusalem.

I am sending you herewith a packet containing apples reported by our Horticultural Lecturer to be attacked by *Fusiclodium dentriticum*.

2. The attack was noticed during the first week in Sept. and is increasing. Attacked fruits are being collected gradually and destroyed.
3. For your observations and advice please.

Sgd. ?

Principal.

K.A.S

See (7)

1937

1937 September 12

2. 1937

Major from Fort-Union Officer.
Lyon.

I am sorry you received a parcel containing
apples reported by our horticultural
by horticultural division.

2. The attack was noticed during the time
and is interesting. Attached find the
and destroyed.

3. For your information and advice find.

200.

1937

1937

1937

GOVERNMENT OF PALESTINE.

حكومة فلسطين

Department of Agriculture & Fisheries

دائرة الزراعة والاسماك

5

All Communications to be addressed to Principal,
Kadoorie Agricultural School, Tulkarm.

يجب ان تعنون جميع المراسلات الى رئيس
مدرسة خضوري الزراعية بطولكرم

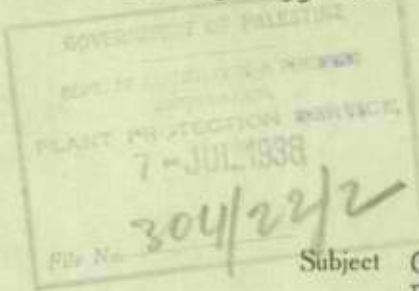
In reply please quote

المرجو ان تذكر عند الاجابة

No. TK 3/3. رقم طك

Tel. No. 26 Tulkarm.

تلفون نمرة ٢٦ طولكرم



KADOORIE AGRICULTURAL SCHOOL,
TULKARM.

مدرسة خضوري الزراعية بطولكرم

Date 6. 7. 38. التاريخ

Subject Orchard: Capnodis Research. الموضوع

Ref: your 304/22/2 of 14. 6. 38.

Chief Plant Protection Officer,
Thro'
Director of Agriculture and
Fisheries.

4

Sending under separate cover

I am ~~enclosing~~ a plan of the stone fruit trees of the School consecutively numbered and showing the particulars asked for, concerning the living, refilled, missing, dead and kept or dying trees the stock and scions used.

2. I note that in future death records of trees will be given as requested. But as regards the previously dead ones, please refer to the particulars sent in my letter of 28. 11. 37, para 6.

3. The dead and dying trees are kept in the ground waiting your instructions.

4. As to the methods of control, please refer to my letter of the 28. 11. 37.

(a) Painting with tar on roots and trunks up to 29 cms above the soil was carried out in June, 1937 on all living plums, peaches and apricot trees.

(b) Paradichlorobenzine was applied on the following trees:- 12, 13, 14, 15, 21, 37, 47, 97, 98, 156, 157, 158, 168, 181, 190, 191, 192 and 193 in October and November, 1937.

The quantity per tree varied from 200 to 500 gms.

1624

5. All the stone fruit trees of the Orchard have been carefully examined and a table giving results is attached.

6. The method of treating newly budded almond trees is noted.

W. K. Huthe.

PRINCIPAL.

(5a)

No. of Tree.	No. of Capnodis Larvae or Nymphs.	No of Tree.	No of Capnodis Larvae or Nymphs.
(6) <i>dead 2.</i>	(4)	190	6
8	2	192	6
9	4	199	5
15 <i>P.D.B.</i>	2	202	3
13 <i>P.D.B.</i>	6	203 <i>Black</i>	3
18	1	209 <i>B</i>	1
23	1	225	1
37	2	226	1
(42) <i>dead 2.</i>	(2)	227	1
66 <i>Black</i>	2	237	2
97 <i>A.</i>	4	239	4
101	2	240	2
108	1	277 <i>Total 18 trees</i>	2.
137	4		
151	1		
156	1		
157	1		
(168) <i>dead 2.</i>	(4)		
170 <i>- Total 19 trees</i>	1		
172	1		
174	1		
176 <i>Black B</i>	1		
181	1		
185	4		

Nothing was found on any
of the trees whose
numbers do not appear on
this list.

Total 39 trees

No. of Times. No. of Times. No. of Times.

1	100	1	100
2	100	2	100
3	100	3	100
4	100	4	100
5	100	5	100
6	100	6	100
7	100	7	100
8	100	8	100
9	100	9	100
10	100	10	100
11	100	11	100
12	100	12	100
13	100	13	100
14	100	14	100
15	100	15	100
16	100	16	100
17	100	17	100
18	100	18	100
19	100	19	100
20	100	20	100
21	100	21	100
22	100	22	100
23	100	23	100
24	100	24	100
25	100	25	100
26	100	26	100
27	100	27	100
28	100	28	100
29	100	29	100
30	100	30	100
31	100	31	100
32	100	32	100
33	100	33	100
34	100	34	100
35	100	35	100
36	100	36	100
37	100	37	100
38	100	38	100
39	100	39	100
40	100	40	100
41	100	41	100
42	100	42	100
43	100	43	100
44	100	44	100
45	100	45	100
46	100	46	100
47	100	47	100
48	100	48	100
49	100	49	100
50	100	50	100
51	100	51	100
52	100	52	100
53	100	53	100
54	100	54	100
55	100	55	100
56	100	56	100
57	100	57	100
58	100	58	100
59	100	59	100
60	100	60	100
61	100	61	100
62	100	62	100
63	100	63	100
64	100	64	100
65	100	65	100
66	100	66	100
67	100	67	100
68	100	68	100
69	100	69	100
70	100	70	100
71	100	71	100
72	100	72	100
73	100	73	100
74	100	74	100
75	100	75	100
76	100	76	100
77	100	77	100
78	100	78	100
79	100	79	100
80	100	80	100
81	100	81	100
82	100	82	100
83	100	83	100
84	100	84	100
85	100	85	100
86	100	86	100
87	100	87	100
88	100	88	100
89	100	89	100
90	100	90	100
91	100	91	100
92	100	92	100
93	100	93	100
94	100	94	100
95	100	95	100
96	100	96	100
97	100	97	100
98	100	98	100
99	100	99	100
100	100	100	100

The no. found on the
 of a paper which
 numbers do not appear on
 classified.

11

304/22/2 ✓

14th June, 8.

Principal,
Kadoorie Agricultural School,
Tulkarem.

Subject :- Capnodis Research.

Reference :- Mr. Jolles' visit
to the School on
31st May, 1938.

The following arrangements are necessary in connection with Capnodis Research.

1. All stone fruit trees in the orchard to be numbered and mapped on milimetric paper of which two sheets are attached. The numbering of trees should begin with plums and be continued with peaches, apricots and almonds. The numbering should run consecutively in each row from west to east. All trees as originally planted should be shown on the sketch. The various stocks and scions should be entered on the sketch as a legend, referring always to the numbers of the trees :- for instance,

<u>Nos. of Trees</u>	<u>Stock</u>	<u>Scion.</u>
5-20	Bitter Almond	Apricot Mistakawi

2. Death records of trees, if available, should be given year by year referring to the numbers of trees of the sketch, stating reason of death.

3. Dead and dying trees which are still in the ground should not be removed. In future

see (30) in 305/4/4

dead trees will be uprooted only upon information from this office. Any method of control, which might have been applied to the trees in the past should be stated referring again to the numbers of the trees.

4. In case of insecticides, the kind used should be stated as well as the quantity and the date and the method of application.

5. All stone fruit trees of the orchard should be examined now and as far as possible the degree of infestation of each tree stated. These particulars are required for the experiments with Ethylene dichloride and should be completed by the end of June.

6. Mention should be made of any varieties which appear not to be true to name.

7. On one half of the newly budded almond trees, one branch of the stock should be left, when cutting off the crown after the buds have taken.


CHIEF PLANT
PROTECTION OFFICER.

Encl:2.

JK.

30/4/22. *19*

24th May, 1938.

Principal,
Kadoorie Arab Agricultural School,
Tul-karm.

Subject :- Capnodis Research.

I am confirming herewith my telephone conversation with Mr. Khawam during your absence in Lebanon, to the effect that the collection of Capnodis beetles at the school should be discontinued and that I shall visit the school at the end of the month of May, to make arrangements in connection with the above mentioned subject.


ASSISTANT PLANT PROTECTION
OFFICER.

JK.

GOVERNMENT OF PALESTINE.

حكومة فلسطين

Department of Agriculture & Fisheries

دائرة الزراعة والاسماك

All Communications to be addressed to Principal,
Kadoorie Agricultural School, Tulkarm.

يجب ان تعنون جميع المراسلات الى رئيس
مدرسة خضوري الزراعية بطولكرم

In reply please quote

المرجو ان تذكر عند الاجابة

No. TK 3/3 رقم ملك

Tel. No. 26 Tulkarm.

تلفون نمرة ٢٦ طولكرم



KADOORIE AGRICULTURAL SCHOOL,
TULKARM.

مدرسة خضوري الزراعية بطولكرم

Date 30. 3. 38. التاريخ

الموضوع Subject Investigations into
Capnodis Attack.

Ref:- My 3/3 of 28/11/37.

The Chief Plant Protection Officer,
Thro'
The Director of Agriculture and
Fisheries,
Jerusalem.

see file 304/41
folio 416

In view of the fact that adult Capnodis
beetles are now being ^{found} ~~formed~~ again in the Orchard,
I should be glad to know exactly what data you wish
collected and what treatments are to be carried out.

If you agree, perhaps Mr. Jollies could
visit the School and give exact instructions as to
what is to be done in the case of the old Orchard
during this coming Summer.

W. H. Stubbs.

PRINCIPAL.

A/cepo.

[Handwritten signature]

GOVERNMENT OF PALESTINE.

حكومة فلسطين

Department of Agriculture & Forests

دائرة الزراعة والغابات

All Communications to be addressed to Principal,
Kadoorie Agricultural School, Tulharm.

يجب ان تعنون جميع المراسلات الى رئيس مدرسة
خضوري الزراعية بطولكرم

In reply please quote

الرجو ان تذكر عند الاجابة

No. TK

3/3/895 رقم طك

Tel. No. 26 Tulharm.

تلفون نمرة ٢٦ طولكرم

Chief Plant Protection Officer,
Thro',
Director of Agriculture & Fisheries,
Jerusalem.

I herewith enclose the particulars required in
connection with the planing of future work in the orchard here.

C.P.P.O. 8/10

SEEN BY
PRINCIPAL.
D. O. A & F.

KADOORIE AGRICULTURAL SCHOOL,
TULKARM.

مدرسة خضوري الزراعية بطولكرم

Date November 28th, 1937

Subject Capnodis Attack.

الموضوع

Ref'nce:-Mr. Jolles visit of 23.11.37.

GOVERNMENT OF PALESTINE
DEPT. OF AGRICULTURE & FISHERIES
JERUSALEM
PLANT PROTECTION SERVICE
30 NOV. 1937

File No.

304/22/2

2803

RECEIVED
JAN 10 1900
U. S. DEPT. OF AGRICULTURE
WASHINGTON, D. C.

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WASHINGTON, D. C.

2/3/00

Observations made and records kept
about the Stone Fruit Trees in the
Orchard at Kad. Agric. School, Tulkarm.

1. Copy of the map of our fruits orchard.

Plum and Peach trees are ^{second quality} planted at 4 x 4 m. distance
and Apricot trees at 5 x 5 m. in ^{marly-loam} land deep, but
occasionally stony and gravelly, ^{good drainage (originally)}

50 Peach, 121, Plum and 108 Apricot trees planted.

2. Origin of trees.- Benyamina.

3. Place of origin.- Kahanovitch Nursery.

4. Kinds of stocks used:- Almond, Peach, Myrobolan, St. Julien,
Prunus (Amygdalus Persica).

5. Year of planting:- 1930 and 1931. *(Sub. Hawaiian started at Hadana July 1932)*

6. Number and varieties of trees that died every year :-

Month	Year	Plum	Peach	Apricot.
July	1934	1	2	-
December	1934	2	-	-
September	1935	6	2	-
June	1936	7	3	-
August	1936	3	1	-
May	1937	8	3	-
June	1937	7	2	-
August	1937	11	5	-
September	1937	6	2	-
October	1937	10	3	2
November	1937	-	-	1
T O T A L.		61	23	3

7. Stock attacked:- 7 Peach, 3 Plums (Amygdalus Persica),
22 Almond, 8 St. Julien, 44 Myrobolan.

8. Methods of control:-

- as was not done periodically but casually*
- (a) Hand searching of the insect Adults, Nymphs & Larvae.
- (b) Opening round the trees & exposing main roots to the sun.
- (c) Painting with tar, roots and trunk up to 20 cms, above the soil level.
- (d) Uncovering roots & applying Paradichlorobenzin round the trees, covering with earth & spraying with water.

9. Irrigation records per year:-

Apricot trees twice, June and August.
Peach and Plum trees five times, June, July,
August, September & October.

10. Observation on any other pests and diseases:-

Nothing of importance.

*2 parts tar
1 part olive oil
as with in manuscript
of soap*

Plot M 3

Almond

6/6

Be. plus ultra x Almond.

Jourdan x Almond.

I. N. L. x Almond.

Victoria x Almond.

Greek x Almond.

Legend
Tree in ...

N 73-84 look all
weak especially
N 75, 76 + 78
N 89 died + removed
N 85-89 look all
weak
N 94 look weak
N 106 dying
N 107 died + removed

N 4 tree blown down in 1937, grown up from the root (later almond)
and replanted in May 1938
N 6: blown down by the wind in 1937
N 2 " " " " " "
N 10 badly infested
N 11 - killed by Agromyza
N 12 - blown down by the wind in 1937 + replanted by better almond
from nursery
N 28 - seems to be attacked
N 29 - dead, N 28 died 1938
N 20 seems to be attacked
N 18 died - removed
N 17 seems to be attacked
N 15 " " "
N 14 " " "
N 13 " " "
N 31 " " "
N 24 heavily attacked
N 48 dead
N 47 heavily attacked
N 46 died + removed
N 45 " " "
N 44 seems to be attacked
N 43 died + removed
N 42 heavily infested
N 38 seems to be infested
N 49 dead
N 50 seems to be infested
N 52 dead after apt. of T.D.B.
N 53 " " "
N 54-6 look poor
N 65 - died + removed
N 66 - dying
N 68 dead
N 69 dying

Plot N 2

Tilton x Peach			Lozi x Peach		
5/5	10	10	10	10	10
Royal	x	St. Julien	Royal	x	St. Julien
Mistkawi	x	Peach	Mistkawi	x	Peach
Blenheim	x	St. Julien	Blenheim	x	St. Julien
Blenheim	x	Peach	Blenheim	x	Peach
Royal	x	Myrob.	Blenheim	x	Myrob.
Royal	x	Apricot	Americani	x	Apricot
Blenheim	x	Peach	Royal	x	Peach
Roulet Peachcot	x	Americani	x	Almond	
x	Almond				

146 died + removed
193 " " "
154, 155, 160 died + removed
156 761 - very weak + infested
142, 145, 166, 167 died
168 dying
163, 164, 169, 174, 171 weak + infested

North

N 7-7 died + removed 1938
N 11 " " "
N 12 very weak
N 13 - weak + suspected
N 17 - died + removed in 1938
N 19 " " "
N 21 weak + suspected
N 23, 24 died + removed
N 25 weak + suspected
N 29 dead
N 30 weak + suspected
N 32-36 + 38-51 died + removed
N 55 - died + removed
N 58 - dead + removed
N 60 + 61 weak + suspected
N 67 died + removed

Plot N 4

Peach

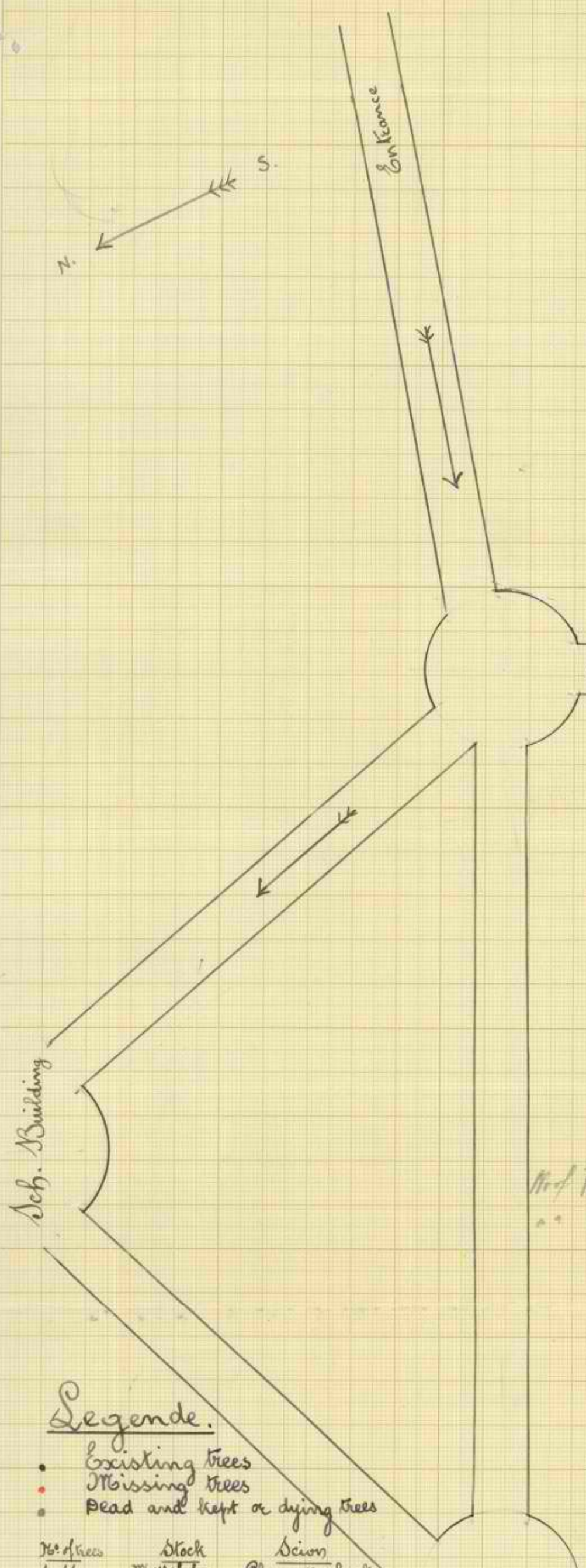
4/4

Simon x Almond		
10	10	10
Santa Rosa	x	Myrobolan
Santa Rosa	x	Almond
Formosa	x	Myrobolan
Formosa	x	Almond

Alexander x Peach		
10	10	10
Lovel	x	Amyg. Persica
Elberta	x	Peach
Muir	x	Almond
Muir	x	St. Julien
Kelsey	x	Myrobolan
Kelsey	x	Almond
Satsuma	x	Myrobolan
Satsuma	x	Almond
Wilson	x	Almond
Wilson	x	Myrobolan
Burbank	x	Myrobolan

72-91 all died
110 died + removed
116 " " "
99 " " "
101, 100, 98 weak + infested
97 - very weak + attacked
96 - died + removed
93 - died + removed
94 - weak
112-121 died + removed
112, 124, 129 - weak
113, 116, 127, 128, 131, 130, 135
died + removed
132 died + removed
135 + 136 died + removed
N 139 weak
N 141 died + removed
142-151 all weak
150 died + removed

Plum



Legende.

- Existing trees
- Missing trees
- Dead and kept or dying trees

No. of trees	Stock	Scion
1-11	Myriobolan	Plum
12-23	Almond	Plum
24-31	"	"
32-41	"	"
42-51	Myriobolan	Plum
52-61	Almond	"
62-71	"	"
72-81	Myriobolan	"
82-91	Almond	"
92-101	"	"
102-109, 110, 111	Myriobolan	"
112-121	"	"
N.B. No 52 refilled		
122-126	St. Julien	Peach
127-131	Almond	"
132-136	"	"
137-141	Peach	"
142-151	"	"
152-161	"	"
162-171	"	"
N.B. No 128 and 134 refilled		
172	Almond	Apricot
173-179	"	"
180-183	Peach	"
184-188	"	"
189-195	Apricot	"
196-200	Myriobolan	"
201-207	"	"
208-212	"	"
213-217	Peach	"
218-219	St. Julien	"
220-221	Peach	"
222-223	"	"
224-225	St. Julien	"
226-227	Peach	"
228-229	"	"
230-231	"	"
232-233	"	"
234-235	"	"
236-237	"	"
238-239	"	"
240-241	"	"
242-243	"	"
244-245	"	"
246-247	"	"
248-249	"	"
250-251	"	"
252-253	"	"
254-255	"	"
256-257	"	"
258-259	"	"
260-261	"	"
262-263	"	"
264-265	"	"
266-267	"	"
268-269	"	"
270-271	"	"
272-273	"	"
274-275	"	"
276-277	"	"
278-279	"	"
280-281	"	"
282-283	"	"
284-285	"	"
286-287	"	"
288-289	"	"
290-291	"	"
292-293	"	"
294-295	"	"
296-297	"	"
298-299	"	"
300-301	"	"
302-303	"	"
304-305	"	"
306-307	"	"
308-309	"	"
310-311	"	"
312-313	"	"
314-315	"	"
316-317	"	"
318-319	"	"
320-321	"	"
322-323	"	"
324-325	"	"
326-327	"	"
328-329	"	"
330-331	"	"
332-333	"	"
N.B. No 175, 177, 185 refilled		
280-292	Almond	Almond
293-305	"	"
306-316	"	"
317-325	"	"
326-333	"	"

N.B. No 284-287, 289, 291, 293, 296-299, 303-311, 313-323, 330-333 refilled in the plantation, the 1st trees having not previously taken.

6/6

333	332	331	330	329	328	327	326
325	324	323	322	321	320	319	318
316	315	314	313	312	311	310	309
308	307	306	305	304	303	302	301
300	299	298	297	296	295	294	293
292	291	290	289	288	287	286	285
284	283	282	281	280	279	278	277

To the Farm

B

Not trees available 89
 " " infected 18 & 13
 71 on 7/6

5/5

224	223	222	221	220	219	218	217
216	215	214	213	212	211	210	209
208	207	206	205	204	203	202	201
200	199	198	197	196	195	194	193
192	191	190	189	188	187	186	185
184	183	182	181	180	179	178	177
176	175	174	173	172	171	170	169
168	167	166	165	164	163	162	161
160	159	158	157	156	155	154	153
152	151	150	149	148	147	146	145
144	143	142	141	140	139	138	137
136	135	134	133	132	131	130	129
128	127	126	125	124	123	122	121
120	119	118	117	116	115	114	113
112	111	110	109	108	107	106	105
104	103	102	101	100	99	98	97
96	95	94	93	92	91	90	89
88	87	86	85	84	83	82	81
80	79	78	77	76	75	74	73
72	71	70	69	68	67	66	65
64	63	62	61	60	59	58	57
56	55	54	53	52	51	50	49
48	47	46	45	44	43	42	41
40	39	38	37	36	35	34	33
32	31	30	29	28	27	26	25
24	23	22	21	20	19	18	17
16	15	14	13	12	11	10	9
8	7	6	5	4	3	2	1

A

4/4

171	170	169	168	167	166	165	164
163	162	161	160	159	158	157	156
155	154	153	152	151	150	149	148
147	146	145	144	143	142	141	140
139	138	137	136	135	134	133	132
131	130	129	128	127	126	125	124
123	122	121	120	119	118	117	116
115	114	113	112	111	110	109	108
107	106	105	104	103	102	101	100
99	98	97	96	95	94	93	92
91	90	89	88	87	86	85	84
83	82	81	80	79	78	77	76
75	74	73	72	71	70	69	68
67	66	65	64	63	62	61	60
59	58	57	56	55	54	53	52
51	50	49	48	47	46	45	44
43	42	41	40	39	38	37	36
35	34	33	32	31	30	29	28
27	26	25	24	23	22	21	20
19	18	17	16	15	14	13	12
11	10	9	8	7	6	5	4
3	2	1					

Total No. of trees 79
 in forest 19 or 16
 Healthy trees 60 or 63

Kadoorie Agric. School
 — Tulharm —
 Sketch of the Stone fruit
 trees
 for the Capnodis Research
 June 1938

R. G. H.